LXII. *An Account of the Earthquake felt in the Iſland of* Sumatra, *in the* Eaſt-Indies, *in* November *and* December 1756. *In a Letter from Mr.* Perry *to the Rev. Dr.* Stukeley, *dated at* Fort Marlborough, *in the Iſland of* Sumatra, Feb. 20. 1757. *Communicated by the Rev.* Wm. Stukeley, *M. D. F. R. S.*

Read Jan. 12, 1758. THE earthquake at Liſbon, which you gave me an account of, was certainly the moſt awful tremendous calamity, that has ever happened in the world. Its effects are extremely wonderful and amazing; and it ſeems, as you obſerve, to have been felt in all parts of the globe. On the 3d day of the ſame month the earthquake of Liſbon happened, I felt at Manna (1) a violent ſhock myſelf; and from that time to the 3d of December following I felt no leſs than twelve different ſhocks, all which I took an exact account of in my pocket-book. Since which we have had two very ſevere earthquakes, felt, we believe, throughout this iſland (2). The walls of (3) Cumberland-houſe * were greatly damaged by them. Salop-houſe *, my own (formerly Mr. Maſſey's), the houſes

(1) Manna lies about 50 miles to the ſouthward of Marlborough.

(2) The iſland of Sumatra is between 7 and 800 miles long from north to ſouth.

(3) Cumberland-houſe is a new well-built houſe for the governor of the place.

* *N. B. Both theſe are contiguous to the fort.*

of Laye (4) and Manna, were all cracked by them; and the works at the ſugar-plantation (5) received conſiderable damage. The ground opened near the *qualloe* (6) at Bencoolen, and up the River in ſeveral places; and there iſſued therefrom ſulphureous earth, and large quantities of water, ſending forth a moſt intolerable ſtench. Poblo Point (7) was much cracked at the ſame time; and ſome *dooſoons* (8) in-land at Manna were deſtroyed, and many people in them.

Theſe are all the ill effects, that have come to our knowlege; but, it is reaſonable to ſuppoſe, not all the damage, that has happened upon the iſland.

LXIII. *Concerning the Fall of Water under Bridges. By Mr.* J. Robertſon, *F.R.S.*

Read Jan. 19, 1758. SOME time before the year 1740, the problem about the fall of water, occaſioned by the piers of bridges built acroſs a river, was much talked of at London, on account of the fall that it was ſuppoſed would be at the new bridge to be built at Weſtminſter. In Mr. Hawkſmore's and Mr. Labelye's pamphlets, the former publiſhed in 1736,

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(4) Laye houſe or factory is about 30 miles to the northward of Marlborough, and Manna houſe or factory fifty miles to the ſouthward.

(5) The ſugar-plantation is five or ſix miles from Marlborough.

(6) The *qualloe* is the country word for a river's mouth.

(7) Poblo Point lies about three leagues to the ſouthward of Marlborough.

(8) *Dooſoons* are villages.